Visual Mathematics in Practice



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Theme of the lesson:		
	Isometric transformation	
Place in curriculum:	High school – I grade - department of mathematics	
(type of school, grade)		
Age of the students/pupils:	16 years old	
Title of the lesson:	Isometries – connections between mathematics and the arts	

	Description of the lesson				
Time	Exercises, matters, parts of the	Methods and forms	Developable		
	lesson The inspiration for this lesson came from lectures of Jablan Slavik and Liljana Radovic at the Summer School.	of student activities	competencies		
10 min	The teacher showed examples of images (Esher, J.Slavik and Lj.Radovic) where you can observe a variety of symmetry and transformation. Each group chose what to paint.	Students are divided into heterogeneous groups.	Developing comunication, colaboration, practical skills. Thinking, creativity, originality,		
70 min	Making schemes - using isometric drawings. Coloring drawings using various techniques.	Students draw schemes using: axial, central symmetry, rotation and translation. Drawings colored markers, colored pencils, watercolor. One group depicts a wall in the school hall.	spatial seeing, image creating skills. Developing ability of connecting abrstrac and real fact, generalisation of mathematical facts		

10 min	Exhibition of works	

Summary

I hope that students will finally find artistic beauty of mathematics!
I announced to students this class and they were looking forward to this way of working.
They were asked for more of these classes.

I was pleased with the students' positive reactions.

Supplements Projector, computer, wall paint, scissors, papers, sticks, colored Used materials: markers, colored pencils, watercolor, Photos: The working atmosphere The wall before our workshop during working The results were:













Our wall drawing is done!

